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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,537	07/03/2003	Michael R. Butts	700693-4022	9026
34313	7590	12/09/2008	EXAMINER	
ORRICK, HERRINGTON & SUTCLIFFE, LLP			EL CHANTI, HUSSEIN A	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/614,537	BUTTS ET AL.	
	Examiner	Art Unit	
	HUSSEIN A. EL CHANTI	2457	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 23 September 2008.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-29 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-29 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____ .	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

1. This action is responsive to amendment received on Sep. 23, 2008. Claims 1-29 are pending examination.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-4 and 6-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Dowling et al., U.S. Patent No. 6,574,239 (referred to hereafter as Dowling).

As to claim 1, Dowling teaches a co-verification interface for design verification systems, comprising:

an application layer having a plurality of communication connections configured to communicate with a first system element (see col. 8 lines 34-42);

a network layer in communication with said plurality of communication connections and being configured to select a communication connection from said plurality of communication connections (see col. 6 lines 26-52 and col. 8 lines 34-67 and col. 9 lines 29-58);

a data link layer having a communication connection in communication with said selected communication connection and being configured to communicate with said network layer to provide flow control for said communication connection of said data link layer (see col. 6 lines 26-52 and col. 8 lines 34-67); and

a physical layer having a communication path in communication with said communication connection of said data link layer and being configured to communicate with a second system element (see col. 6 lines 26-52 and col. 8 lines 34-67).

As to claim 2, Dowling teaches the co-verification interface of claim 1, wherein said application layer is configured to couple with said first system element via a standard coupling interface (see col. 8 lines 45-65).

As to claim 3, Dowling teaches the co-verification interface of claim 2, wherein said standard coupling interface comprises an Application Programming Interface (see col. 8 lines 45-65).

As to claim 4, Dowling teaches the co-verification interface of claim 2, wherein said standard coupling interface comprises a Peripheral Virtual Component Interface (see col. 8 lines 45-65).

As to claim 6, Dowling teaches the co-verification interface of claim 1, wherein said co-verification interface is configured to communicate outgoing communication signals from said first system element to said second system element (see col. 9 lines 60-col. 10 lines 28).

As to claim 7, Dowling teaches the co-verification interface of claim 1, wherein said co-verification interface is configured to communicate incoming communication signals from said second system element to said first system element (see col. 9 lines 60-col. 10 lines 28).

As to claim 8, Dowling teaches the co-verification interface of claim 1, wherein said application layer is configured to couple with a virtual system element (see col. 9 lines 60-col. 10 lines 28).

As to claim 9, Dowling teaches the co-verification interface of claim 1, wherein said application layer is configured to open and close each of said plurality of communication connections (see col. 9 lines 28-60).

As to claim 10, Dowling teaches the co-verification interface of claim 1, wherein said plurality of communication connections of said application layer is configured to communicate with a plurality of system elements (see col. 9 lines 60-col. 10 lines 28).

As to claim 11, Dowling teaches the co-verification interface of claim 1, wherein said application layer is segmented into a plurality of application layer segments each including at least one of said plurality of communication connections (see col. 9 lines 60-col. 10 lines 28).

As to claim 12, Dowling teaches the co-verification interface of claim 11, wherein at least two of said application layer segments support different types of communication signals (see col. 10 lines 56-col. 11 lines 20).

As to claim 13, Dowling teaches the co-verification interface of claim 1, further comprising a standard interface for coupling said data link layer with said physical layer (see col. 10 lines 56-col. 11 lines 20).

As to claim 14, Dowling teaches the co-verification interface of claim 13, wherein said standard interface is disposed substantially between said network layer and said data link layer (see col. 10 lines 56-col. 11 lines 20).

As to claim 15, Dowling teaches the co-verification interface of claim 1, wherein: said network layer is configured to select at least one communication connection from said plurality of communication connections; said data link layer is segmented into a plurality of data link layer segments each having a communication connection in communication with at least one of said at least one communication connection and being configured to communicate with said network layer to provide flow control for said at least one of said at least one communication connection; and said physical layer includes a plurality of communication paths, said communication connection of each of said plurality of data link layer segments each being in communication with one of said plurality of communication paths (see col. 9 lines 60-col. 10 lines 28).

As to claim 16, Dowling teaches the co-verification interface of claim 15, wherein at least two of said data link layer segments support different types of communication signals (see col. 10 lines 56-col. 11 lines 20).

As to claim 17, Dowling teaches the co-verification interface of claim 1, wherein said physical layer configured to couple with a physical system element (see col. 10 lines 56-col. 11 lines 20).

As to claim 18, Dowling teaches the co-verification interface of claim 1, wherein said communication path of said physical layer comprises at least one unidirectional communication path (see col. 10 lines 56-col. 11 lines 20).

As to claim 19, Dowling teaches the co-verification interface of claim 1, wherein said physical layer forms at least one bi-directional communication path comprising a pair of unidirectional communication paths, each being configured to transmit communication signals in opposite directions (see col. 10 lines 56-col. 11 lines 20).

As to claim 20, Dowling teaches the co-verification interface of claim 1, wherein said physical layer is configured to communicate with said second system element via a second co-verification interface (see col. 10 lines 56-col. 11 lines 20).

As to claim 21, Dowling teaches a co-verification interface for design verification systems, comprising: a first application layer having a plurality of communication connections configured to communicate with a physical system element; a first network layer in communication with said plurality of communication connections of said first application layer and being configured to select a first communication connection from said plurality of communication connections of said first application layer; a first data link layer having a communication connection in communication with said first communication connection and being configured to communicate with said first network

layer to provide flow control for said communication connection of said first data link layer; a physical layer having a communication path in communication with said communication connection of said first data link layer; a second application layer having a plurality of communication connections configured to communicate with a virtual system element; a second network layer in communication with said plurality of communication connections of said second application layer and being configured to select a second communication connection from said plurality of communication connections of said second application layer; and a second data link layer having a communication connection in communication with said second communication connection and said communication path and being configured to communicate with said second network layer to provide flow control for said communication connection of said second data link layer (see col. 10 lines 56-col. 11 lines 20, col. 8 lines 34-67 and col. 9 lines 29-col. 10 lines 43).

Claims 22-29 have similar limitations as claims 1-21 and therefore are rejected for similar reasons.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dowling.

Dowling teaches the co-verification interface wherein said application layer is configured to couple with said first system element via a standard coupling interface (see col. 8 lines 45-65). Dowling does not explicitly teach that the standard coupling interface comprises an Open Core Protocol. Official notice is taken that it would have been obvious for one of the ordinary skill in the art at the time of the invention to implement open core protocol in Dowling's interface. Motivation to do so comes the knowledge well known in the art that implementing Open Core protocol would facilitate a plug and play interface and therefore make the interface more user friendly.

4. Applicant's arguments have been fully considered but are not persuasive. Applicant argues in substance that Dowling does not teach a co-verification system.

In response to applicant's arguments, the recitation of "co-verification system" has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951). In addition, the phrase "co-verification system" is a descriptive term where the claim language shows no structural difference Dowling and the claimed system.

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUSSEIN A. EL CHANTI whose telephone number is (571)272-3999. The examiner can normally be reached on Mon-Fri 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571)272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hussein Elchanti

Dec. 1, 2008

/ARIO ETIENNE/
Supervisory Patent Examiner, Art Unit 2457